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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/849,747	05/19/2004	Peter Stokes	CLIP014US	8577
40032 7590 09/28/2011 CREATIVE LABS, INC.			EXAM	INER
LEGAL DEPA	RTMENT	JORDAN, K	JORDAN, KIMBERLY L	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)				
10/849,747	STOKES ET AL.				
Examiner	Art Unit				
Kimberly Jordan	2194				

		Kimberly Jordan	2194		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY THEVER IS LONGER, FROM THE MAILING DV income of time may be available under the provisions of 3° CFR 1.13 SIX (6) MONTHS from the anising date of this communication. SIX (6) MONTHS from the anising date of this communication, period for reply a specified above, the maximum statutory period was period for reply a specified above, the maximum statutory period was reply received by the Office later than three months after the mailing department and patient term adjustment. See 30° CFR 1.704(b).	ATE OF THIS COMMUNICATION (6(a). In no event, however, may a reply be tim apply and will expire SIX (6) MONTHS from- cause the application to become ABANDONE!	N. nely filed the mailing date of this o D (35 U.S.C. § 133).		
Status					
2a) 🗌 3) 🔲	Responsive to communication(s) filed on <u>26 Ar</u> This action is FINAL . 2b M This An election was made by the applicant in respond; the restriction requirement and election Since this application is in condition for allowar	action is non-final. onse to a restriction requirement s have been incorporated into this	action.		
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	33 O.G. 213.		
	on of Claims				
6)⊠ 7)⊠ 8)□	Claim(s) <u>1-9 and 11</u> is/are pending in the applic 5a) Of the above claim(s) is/are withdrav Claim(s) <u>8.9 and 11</u> is/are allowed. Claim(s) <u>1-7</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.			
Applicati	on Papers				
11)	The specification is objected to by the Examine: The drawing(s) filed onis/are: a acce Applicant may not request that any objection to the c Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 Cl		
Priority (ınder 35 U.S.C. § 119				
13					
Attachmen	t(s)				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	Interview Summary Paper No(s)/Mail Da	ate		

Attachment(s)		
Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)	
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date	
3) Information Displacture Statement(s) (PTC/SE/03)	Notice of Informal Patent Application	
Paper No(s)/Mail Date	6) Other	

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DETAILED ACTION

This Office action is in response to the amendment filed April 26, 2010.

Claims 1-9 and 11 are pending and have been examined.

3. Claims 1, 8, 9, and 11 have been amended.

4. Claims 10, 12, and 13 have been cancelled.

5. Claims 8, 9, and 11 are allowed.

Continued Examination Under 37 CFR 1.114

6. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/26/2010 has been entered.

Response to Amendment

Claim Objections

- 7. Claims 1 and 6 are objected to because of the following informalities:
 - Claim 1, line 3 contains an unnecessary parenthetical. It is recommended to either remove the parenthetical entirely or remove the parenthesis to make "of the computer" explicitly part of the claim.
 - · Claim 6, line 3 contains an unnecessary comma.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by <u>Prabhu et al.</u> (I/O File System Filter Driver For Windows NT), hereinafter <u>Prabhu</u>.

Regarding claim 1, Prabhu discloses:

- a device driving system implemented in a computer and configured for driving at
 least one hardware device of predetermined functionality from an operating
 system of the computer that communicates with an installed driver for said
 hardware device (see at least figure page 4), the device driving system
 comprising:
- additional driver means interposed between the operating system and the
 installed driver (see at least page 4, figure; page 3, last paragraph; page 4,
 paragraph 2, the I/O Manager is part of the OS and a filter driver is placed
 between the installed driver and the OS) and configured to interface directly with

at least said operating system (see at least figure page 4; page 4, paragraph 1, the I/O Manager directs requests to the filter driver instead of the installed driver), the additional driver means configured to enable operation of at least one further hardware device of functionality differing from said predetermined functionality and unsupported by said software system (see at least page 3, paragraph 4. scenario where OS does not support on-line encryption/decryption but a filter driver implementation may perform this data operation), the additional driver means further configured to communicate with said operating system in the same manner that the installed driver is configured to communicate with said operating system in the absence of the additional driver means (see at least page 3, paragraph 2, the filter driver is invisible; page 4, paragraph 2, "the I/O Manager will begin redirecting I/O requests to the device object of the filter driver instead of forwarding them to the driver managing the target device object"; page 4, paragraph 3, "IRPs destined for the driver associated with the original Device Object will be sent to the driver associated with the "attached" Device Object. This attached driver is the Filter Driver"; page 3, last paragraph – page 4, first paragraph, "Ensure that the driver is set up to process the I/O requests, originally directed to the target device object, that will be sent to it instead. I.e. the driver needs to have all the Dispatch entry points as that of the original driver so that it can redirect the request to the original driver. Ensure that the fields in the device object are set correctly to maintain complete transparency to the modules that normally invoke the target driver.")

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Driver")

Regarding claim 2, the rejection of claim 1 is incorporated, and Prabhu further discloses:

- wherein the additional driver means is also configured to interface directly with said installed driver, thereby enabling continued and unchanged use of said at least one hardware device of predetermined functionality (see at least figure page 4; page 4, paragraph 2, "the I/O Manager will begin redirecting I/O requests to the device object of the filter driver instead of forwarding them to the driver managing the target device object"; page 4, paragraph 3, "IRPs destined for the driver associated with the original Device Object will be sent to the driver associated with the "attached" Device Object. This attached driver is the Filter

Regarding claim 3, the rejection of claim 2 is incorporated, and Prabhu further discloses:

- wherein the additional driver means is additionally configured to interface with a further driver which is configured to drive an additional hardware device (see at least page 3, paragraph 4, "The filter driver could also use the services provided by the existing drivers on the system. Hence it can use the services of the file system driver and the disk drivers to manage transfer of data on the secondary storage devices.")

Regarding claim 4, the scope of the instant claim does not differ substantially from that of claim 3. Accordingly, claim 4 is rejected for the same reasons as set forth in the rejection of claim 3.

Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 11. Claims 5 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Prabhu et al.</u> (WO File System Filter Driver For Windows NT), hereinafter <u>Prabhu</u>, in view of <u>Saravan et al.</u> (WDM USB Video Streaming Filter Driver), hereinafter <u>Saravan</u>.

Regarding claim 5, the rejection of claim 1 is incorporated. However <u>Prabhu</u> does not explicitly disclose, but <u>Saravan</u> discloses:

> wherein the at least one hardware device comprise audio devices (see at least page 11, part 2, paragraphs 1 and 3, a filter driver is used for a USB camera which captures audio)

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It would have been obvious to one of ordinary skill in the art at the time of the invention to modify <u>Prabhu's</u> description of a file system driver filter driver by incorporating the teachings of <u>Saravan</u> to include a USB video/audio filter driver. The filter driver described in both references' filter drivers perform the same functions but are directed to different hardware. Filters directed to USB audio/video allow noise reduction from a USB reduction (<u>Saravan</u> page 2, paragraph 1).

Regarding claim 7, the rejection of claim 1 is incorporated. However <u>Prabhu</u> does not explicitly disclose, but <u>Saravan</u> discloses:

> - wherein the operating system is the Windows operating system (see at least page 14, last paragraph, system requirements include Windows OS) and the said installed driver comprises a Windows Driver Model (WDM) audio driver (see at least page 11, part 2, paragraphs 3 and 6, the filter driver is implemented based on WDM for a USB camera which captures audio)

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Pathu and Sarayan for the reasons listed above.

12. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Prabhu et al.</u> (I/O File System Filter Driver For Windows NT), hereinafter <u>Prabhu</u>, in view of <u>Saravan et al.</u> (WDM USB Video Streaming Filter Driver), hereinafter <u>Saravan</u>, and further in view of <u>Puryear</u> (US 6.646.195).

Regarding claim 6, the rejection of claim 4 is incorporated. However <u>Prabhu</u> does not explicitly disclose, but <u>Saravan</u> discloses:

> wherein the at least one hardware device comprises USB audio hardware (see at least page 11, part 2, paragraphs 1 and 3, a filter driver is used for a USB camera which captures audio) and

However Prabhu and Saravan do not explicitly disclose, but Puryear discloses:

 the additional device comprises hardware associated, with 3D positioning of sounds or environmental effects (see at least Figure 3; column 4: 55-50, coordinating change on a 3D sound buffer and changing sound appearing to move from two or more speakers are types of audio control messages sent in the system using modules (filters))

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Person driver filters by incorporating the teachings of Puryear to include the hardware allowing for 3D sounds. Puryear discussing processing of audio in multiple ways, one of which involves 3D sounds, using filters which allows for clearer audio (reduction in latency and jitter) (Puryear column 2: 25-27).

Response to Arguments

Rejection of claims under §103(a):

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Applicant asserts that art directed to filter drivers which allow modifications to the data stream would cause problems to arise (as seen in the background of the specification ¶0012). However <u>Prabhu</u> details that data may simply be passed on and not necessarily modified (page 4, paragraph 2, "This filter driver can then examine, modify, complete, or pass along the IRPs it receives to the original driver."). The newly added limitation that the newly added driver communicates with the OS in the same manner that the installed driver does without the newly added driver is taught by <u>Prabhu</u> in that the filter driver is invisible within the system as seen in the rejection above. <u>Saravan</u> also indicates on page 5, paragraph 1, that users of the lower driver are completely unaware of the filter driver.

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Conclusion

14. Any inquiry of a general nature or relating to the status of this application or concerning

this communication or earlier communications from the examiner should be directed to Kimberly

Jordan whose telephone number is 571-270-5481. The examiner can normally be reached on

Monday-Friday 9:30am-5pm EST. If attempts to reach the examiner by telephone are

unsuccessful, the examiner's supervisor, Hyung Sough can be reached on 571-272-6799.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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applications is available through Private PAIR only. For more information about the PAIR

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PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you

would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kimberly Jordan/ Examiner, Art Unit 2194

/S. Sough/

Supervisory Patent Examiner, Art Unit 2194